IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s):   Mark S. Moir et al.

Title: OBSTRUCTION-FREE SYNCHRONIZATION FOR SHARED DATA
                  STRUCTURES

Application No.: 10/620,748   Filed: July 16, 2003

Examiner: Mano Padmanabhan   Group Art Unit: 2188

Atty. Docket No.: 004-8252

September 27, 2004

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37 C.F.R. § 1.97(b)

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Pursuant to 37 C.F.R. § 1.56, § 1.97 and § 1.98, the undersigned brings the patents, publications, applications or other information identified in the attached:

☒   Form(s) PTO-1449 (2 pages), including copy(ies) of 33 reference(s).
☐   Other: n/a

to the Examiner's attention in the above-identified application. Citation of such information shall not be construed as:

1.   an admission that the information necessarily is, or corresponds to, prior art with respect to the instant invention;
2.   a representation that a search has been made, other than as described below; or
3.   an admission that the information cited herein is, or is considered to be, material to patentability as defined in § 1.56(b).

Pursuant to 1276 OG 55 (August 5, 2003), Information Disclosure Statements may be filed without copies of U.S. Patents and Published Applications in Patent Applications filed after June 30, 2003.

For each item of information listed that is not in the English language, the undersigned has provided a concise explanation of the relevance through (i) an English language abstract, (ii) an English language equivalent application, or (iii) if cited in a search report or other action

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FEE AUTHORIZATION

☐   This Information Disclosure Statement is filed within three months of the filing date of a national application other than a continued prosecution application under § 1.53(d) or within three months of entry of the national stage as set forth in § 1.491 in an international application. Therefore, no fee is required.

☒   The undersigned believes that this Information Disclosure Statement is being filed before the mailing date of a first Office action on the merits or before the mailing date of a first Office action after the filing of a request for continued examination under § 1.114. Therefore, no fee is believed required.

If however, this Information Disclosure Statement is filed after the period specified in § 1.97(b), the undersigned hereby authorizes the Commissioner to charge the fee set forth in § 1.17(p) to Deposit Account No. 50-0631.
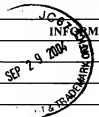
Respectfully submitted,

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U.S. Department of Commerce, Patent and Trademark Office	Attorney Docket No.:	004-8252
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT	Applicant(s):	Moir et al.
(Use several sheets if necessary)	Filing Date:	July 16, 2003
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NON PATENT LITERATURE DOCUMENTS

*Examiner Initial	Cite No.	(Including name of author in CAPITAL LETTERS, title of article, title of item, date, pertinent pages, volume-issue number(s), publisher, city and/or country where published.)
	1	Afek, Yehuda et al., *"Long-Lived Renaming Made Adaptive"*, 18th Annual ACM Symposium on Principles of Distributed Computing, pages 91-104, 1999.
	2	Afek, Yehuda, *"Wait-Free Made Fast"*, 27th Annual ACM Symposium on Theory of Computing, pages 538-547, 1995.
	3	Agesen, Ole et al., *"DCAS-Based Concurrent Deques"*, 12th Annual ACM Symposium on Parallel Algorithms and Architectures, pages 137-146, July 2000.
	4	Anderson, James H. et al., *"Using Local-Spin k-Exclusion Algorithms to Improve Wait-Free Object Implementations"*, 12th Annual ACM Symposium on Principles of Distributed Computing, November 1995 (revised 1996, 1997).
	5	Arora, Nimar S. et al., *"Thread Scheduling for Multiprogrammed Multiprocessors"*, 10th Annual ACM Symposium on Parallel Algorithms and Architectures, pages 119-129, 1998.
	6	Attiya, Hagit et al., *"An Adaptive Collect Algorithm with Applications"*, Dept. of Computing Science, The Technion, Israel, May 10, 2001.
	7	Barnes, Greg, *"A Method for Implementing Lock-Free Shared Data Structures"*, 5th Annual ACM Symposium on Parallel Algorithms and Architectures, pages 261-270, 1993.
	8	Bayer, R. et al., *"Concurrency of Operations on B-Trees"*, Acta Informatica, 1977.
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	14	Herlihy, Maurice, *"Dynamic-Sized Lockfree Data Structures"*, Sun Microsystems Technical Report SML1 TR-2002-112, June 2002.
	15	Herlihy, Maurice et al., *"Linearizability: A Correctness Condition for Concurrent Objects"*, ACM Transactions on Programming Languages and Systems, pages 463-492, July 1990.
	16	Herlihy, Maurice et al., *"The Repeat Offender Problem: A Mechanism for Supporting Dynamic-Sized Lock-Free Data Structures"*, Sun Microsystems Technical Report SML1 TR-2002-112, June 2002.

Examiner	/Sheng Jen Tsai/	Date Considered	04/29/2008

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with your communication to applicant.

ALL REFERENCES CONSIDERED EXCEPT WHERE LINED THROUGH. /S.T./

Form 1449B

U.S. Department of Commerce, Patent and Trademark Office		Attorney Docket No.:	004-8252
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		NON PATENT LITERATURE DOCUMENTS
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	17	Herlihy, Maurice et al., *"Transactional Memory: Architectural Support for Lock-Free Data Structures"*, 20th International Symposium in Computer Architecture, 1993.
	18	Herlihy, Maurice et al., *"Obstruction-Free Synchronization: Double-Ended Queues as an Example"*, 23rd International Conference on Distributed Computing, May 2003.
	19	Israeli, Amos et al., *"Disjoint-Access-Parallel Implementations of Strong Shared Memory Primitives"*, 13th Annual ACM Symposium on Principles of Distributed Computing, pages 151-160, 1994
	20	Lamport, Leslie, *"How to Make a Multiprocessor Computer that Correctly Executes Multiprocess Programs"*, IEEE Transactions on Computers, September 1979.
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	29	Moir, Mark et al., *"Wait-Free Algorithms for Fast, Long-Lived Renaming"*, Science of Computer Programming, August 1994.
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	33	Turek, John et al., *"Locking without Blocking: Making Lock Based Concurrent Data Structure Algorithms Nonblocking"*, 11th ACM SIGACT-SIGMOD-SIGART Symposium on Principles of Database Systems, 1992.

Examiner	/Sheng Jen Tsai/	**Date Considered**	04/29/2008

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